

BOBKOV, Vasilii Andreyevich; MARKOV, Vladimir Petrovich; GAKKEL', Ye.Ya., dok.tekhn.
nauk, nauch.red.; VOROB'YEV, G.S., red. izd-va; GURDZHIYEVA, A.M., tekhn.
red.

[Railroad transportation in the seven-year plan] Zheleznodorozhnyi
transport v semiletнем plane. Leningrad, Ob-vo po raspr. polit. i
nauchn. znani RSFSR, 1961. 43 p. (MIRA 14:8)
(Railroads)

BOBKOV, V.F.; SHLYGIN, Ye.D.

Age of nodular ores of the Sokolovka deposit. Vest.
AN Kazakh.SSR 16 no.6:68-70 Je '60. (MIRA 13:7)
(Sokolovka region(Kazakhstan)--Ore deposits)

BOBKOV, V.F., kapitan 1-go ranga; KRACHKEVICH, L.N., kapitan 2-go ranga

Organization of astronomical observations and their processing on
submarines. Mor. sbor. 48 no.12:36-43 D '64.

(MIRA 18:2)

BOBKOV, V.G.; DEMIN, V.P.; KEIRIM-MARKUS, I.B.; KOVALEV, Ye.Ye.;
LARTCHEV, A.V.; SAKOVICH, V.A.; SMIRENNYY, L.N.;
SYCHKOV, M.A.; MEL'NIKOVA, A.I., red.

[Radiation safety in space flights] Radiatsionnaya bez-
opasnost' pri kosmicheskikh poletakh. Moskva, Atomizdat,
1964. 370 p. (MIRA 18:1)

L 27302-66 EWT(1)/EWT(m)/FCC/EWA(h) GW

ACC NR: AM6001040

Monograph

UR/

Bobkov, V. G.; Demin, V. P.; Keirim-Markus, I. B.; Kovalev, YE. YE.; Larichev, A. V.;
Sakovich, V. A.; Smirenniy, L. N.; Sychkov, M. S.

Radiation safety during space flights (Radiatsionnaya bezopasnost' pri kosmicheskikh poletakh) Moscow, Atmizdat, 1964. 370 p. illus., biblio. 1700 copies printed. 103

TOPIC TAGS: cosmic radiation, solar radiation, space radiation hazard, radiation safety, radiation belt, radiation dosimetry, radiation protection, solar corpuscular radiation, nuclear energy, nuclear propulsion engine. B+1

PURPOSE AND COVERAGE: This monograph may be of interest to persons concerned with problems of radiation safety in space flights. It is a compilation of articles written by various authors on cosmic radiation, its sources, levels, dosimetry techniques, and physical methods for protection against radiation. The authors' purpose was to present the problem of radiation safety in space flight as fully as possible. Peculiarities of cosmic radiation dosimetry are outlined; radiation conditions in space, basic interactions of cosmic radiation with the matter, and radiation protection are analyzed. Chapters 1 and 3 were written by Z. B. Keirim-Markus, Chapters 2 and 4 by M. A. Sychkov, Chapters 5 and 8 by A. V. Larychev, Chapter 6 by Ye. Ye. Kovalev, Chapter 7 by Ye. Ye. Kovalev and L. N. Smirenniy, Chapter 9 by V. G. Bobkov, and Chapter 10 by V. P. Demin and V. A. Sakovich.

TABLE OF CONTENTS [abridged]:

Card 1/3

UDC: 539.16+628.58+523

L 27302-66

ACC NR: AM6001040

Foreword -- 3

Ch. 1. On dosimetry of cosmic radiation -- 7

Ch. 2. Primary (galactic) cosmic radiation (PCR) -- 42

Ch. 3. Solar cosmic radiation (SCR) -- 60

Ch. 4. The earth's inner radiation belt -- 103

Ch. 5. The earth's outer radiation belt -- 117

Ch. 6. Interaction of high-energy protons with protective material -- 135

Ch. 7. Protection against protons of the earth's inner radiation belt and solar flares -- 200

Ch. 8. Protection against electrons and bremsstrahlung of the earth's outer radiation belt -- 240

Ch. 9. Nuclear energy sources in spacecraft -- 259

Ch. 10. Protective shielding of nuclear reactors in spacecraft -- 300

Card 2/3

L 27302-66

ACC NR: AM6001040

Appendices -- 354

SUB CODE: 18, 06/ SUBM DATE: 22Oct64/ ORIG REF: 034/ OTH REF: 050/

Card

3/3

Jo

BOBKOV, V.I. (g.Donskoy Tul'skoy oblasti)

Self-propelled BC-1 car on rails. Gor. zhur. no.12:64-65 D '60.
(MIRA 13:12)

(Mine railroads--Cars)

BOBKOV, Vasilii Ivanovich; POCHUYEV, Yuriy Grigor'yevich; BUKOV,
Georgiy Georgiyevich; BELOV, Nikolay Pavlovich; NOSOV,
Yuriy Pavlovich; SEROV, Vyacheslav Alekseyevich;
BARANOVSKIY, F.I., otv. red.; KOVAL', I.V., red. izd-va;
IL'INSKAYA, G.M., tekhn. red.

[OMKT mechanized stoping unit] Ochistnoi mekhanizirovannyi
kompleks OMKT; rukovodstvo po ekspluatatsii i remontu. Mo-
skva, Gosgortekhnizdat, 1963. 242 p. (MIRA 16:8)
(Stoping (Mining))--Equipment and supplies)

BOBKOV, V.I., inzh.; BOGATENKOV, V.P., inzh.

Efficient organization of the repair of the OMKT mechanized units.
Ugol' 40 no.2:46-48 F '65. (MIRA 18:4)

1. Mosbassgiprogormash.

BORKOV, V.I.

Creation of powered supports and complexes: In the Moscow Basin
State Experimental Institute of Design and Construction for the
Mining Machinery Industry. Ugol' 40 no.5:30-31 My '65.

(MIRA 18:6)

1. Direktor Mosbassgiprogermasha.

BOBKOV, V.P.

Solonetz processes in soils of the Volga-Akhtuba Floodplain.
Pochvovedenie no.6:80-89 Je '63. (MIRA 16:7)

1. Volgogradskaya opytno-meliorativnaya stantsiya.
(Volga-Akhtuba Floodplain-Solonetz soils)

BOBKOV, V.P.

Results of using a mechanized drill for vibration drilling in some soils of the Volga-Akhtuba Flood Plain (designed by the All-Union Scientific Research Institute of Hydro-Engineering and Land Reclamation). Pochvovedenie no.1:91-92 Ja '63.

(MIRA 16:2)

(Volga-Akhtuba Flood Plain—Boring)
(Soils—Analysis)

PROSTAKOV, P.Ye., prof.; BOBKOV, V.P.

Urgent problems in the reclamation of the Volga-Akhtuba Flood
Plain. Zemledelie 24 no.8:83-85 Ag '62. (MIRA 15:9)

1. Volgogradskiy sel'skokhozyaystvennyy institut.
(Volga-Akhtuba Flood Plain—Reclamation of land)

BOBKOV, V.P.

Change in the salt composition of soils in connection with diking
in the Volga-Akhtuba Flood Plain. Pochvovedenie no.5:12-23 My
'62. (MIRA 15:6)

1. Volgogradskiy sel'skokhozyaystvennyy institut.
(Volga-Akhtuba Flood Plain--Saline and alkali soils)
(Dikes (Engineering))

1. BOBKOV, V.P.
2. USSR (600)
4. Horse Breeding
7. Increasing the number of colts produced at racing stud farms, Konevodstvo 23
no. 5, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

BOBKOV, Vladimir Andreyevich; MARKOV, V.P.

[Railroad transportation of the U.S.S.R. in the seven-year
plan] Zheleznodorozhnyi transport SSSR v semiletнем plane.
Leningrad, Ob-vo po raspr. polit. i nauchn. znaniu RSFSR,
1961. 43 p. (MIRA 15:10)
(Railroads)

L 21989-66

EWT(1)/EWP(m)/EWA(d)/EWA(1)

ACCESSION NR: AP5025985

UR/0294/65/003/005/0708/0716

532.542.4:546.49:536.5.001.5

AUTHOR: Bobkov, V. P. (Moscow); Gribanov, Yu. I. (Moscow); Ibragimov, M. Kh. (Moscow); Nomofilov, Ye. V. (Moscow); Subbotin, V. I. (Moscow)

TITLE: Measurement of temperature pulsation intensity in the turbulent flow of mercury in a tube

SOURCE: Teplofizika vysokikh temperatur, v. 3, no. 5, 1965, 708-716

TOPIC TAGS: mercury, turbulent flow, ~~pulse~~, temperature stabilization, flow meter/Type 46K1 flow meter

ABSTRACT: The temperature pulsations were measured with two thermocouples, located in a single probe. Location of the thermocouples in the experimental section was accurate to ± 0.1 mm. The experimental tube had a diameter of 52.2 mm, and was placed vertically. The length of the hydrodynamic and thermal stabilization zone was 30 tube diameters. In some experiments, a grid with an effective section equal to 30% of the cross section of the tube was placed at the inlet of the tube. This grid was a steel plate 2 mm thick with 2.5 mm diameter openings in a square pattern with a spacing of 4 mm. The mercury was circulated in the loop by a Type TsN-2 centrifugal pump. The heat flux was created by an electric heater, and the temperature of the mercury was measured with Chrom-

Cord 1/2

L 21989-66

ACCESSION NR: AP5025985

6

el-Alumel thermocouples. The statistical characteristics of the flow were measured and automatically recorded with a Type 46K1 correlation meter. The amplifiers had a transmission band from 0.18 to 300 cycles at a level of 0.9. A block diagram of the measuring scheme is given. The temperature pulsation intensity was measured over a Reynolds number range from 5×10^3 to 125×10^3 and a heat flux at the wall from 10^4 to 2×10^4 kcal/m²-hr, at different inlet conditions. Results are given in tabular form. Analysis of experimental data shows that with a rise in the Reynolds number, the observed nonhomogeneity of the pulsations along the radius of the tube gradually disappears and the maximum intensity degenerates. Comparison of the experimental data for mercury and water indicate that with a rise in the Prandtl number at constant Reynolds number, the maximum intensity of turbulent temperature pulsations becomes more marked and approaches the tube wall. Orig. art. has: 6 figures and 1 table

ASSOCIATION: None

SUBMITTED: 31Jul64

ENCL: 00

SUB CODE: 20

NR REF SOV: 007

OTHER: 005

Card 2/2 *W*

1 45662-66	ENT(1)/ENT(m)	WW	SOURCE CODE: UR/0294/66/004/003/0380/0388
ACC NR:	AP6021215		
AUTHOR: <u>Bobkov, V. P.</u> (Moscow); <u>Ibragimov, M. Kh.</u> (Moscow); <u>Nomofilov, Ye. V.</u> (Moscow); <u>Subbotin, V. I.</u> (Moscow)			
ORG:	none		83
TITLE: Investigation of spatial correlation coefficients and transverse temperature excitation scales in the <u>turbulent flow of mercury</u> in a round tube			
SOURCE: Teplofizika vysokikh temperatur, v. 4, no. 3, 1966, 380-388			
TOPIC TAGS: turbulent flow, Reynolds number, thermocouple, liquid metal, mercury			
ABSTRACT: Temperature fluctuations in a turbulent flow of mercury were investigated in the Reynolds number range of 10,000 to 125,000. A pair of thermocouples were used at various positions in the stream and the spatial correlation coefficient was measured. The results are tabulated and graphed. The correlation coefficients were found to approach zero in the center of the stream and their change with the Reynolds number was noted to be greatest at the center. This is taken to indicate the strong dependence of the walls on the turbulence of the flow. The results indicate that transverse variations in temperature fluctuations are similar to those of velocity fluctuations and their scale is comparable to the stream transverse dimension. The analysis of the results is accompanied by an extensive review of turbulence theory			
Card 1/2		UDC: 532.5.071.4	

PALIYCHUK, A.S., inzh.; CHABAN, O.I., inzh.; SHVETS, V.N., inzh.;
GUSEYNOV, M.Kh., inzh.; SLUCHISHKIN, M.Ya., inzh.; BOBKOV,
V.S., inzh.; KURTSEV, P.A., inzh.

Starting a 150 Mw boiler after installation. Teploenergetika
8 no.7:8-12 JI '61. (MIRA 14:9)

1. Yuzhnoye otdeleniya Gosudarstvennogo tresta po organizatsii
i ratsionalizatsii elektrostantsiy i Gosudarstvennaya rayonnaya
elektricheskaya stantsiya "Severnaya".
(Boilers)

ACCESSION NR: AP5002646

S/0096/64/000/010/0024/0030

AUTHOR: Chaban, O.I.(Engineer); Dmitriyev, V. Ye.(Engineer); Futorskiy, B. M.
(Engineer); Guseynov, M. Kh. (Engineer); Bobkov, V. S.(Engineer)

TITLE: A study of the 150 megawatt block under variable and constant steam pressures

SOURCE: Teploenergetika, no. 10, 1964, 24-30

TOPIC TAGS: steam turbine, steam boiler, steam auxiliary equipment/TGM-94
boiler, K-160-130 turbine

Abstract: The article compares the operation of a boiler-turbine block for the case of conventional control by the turbine valves and for the case of control by varying steam pressure. On the basis of numerous diagrams the authors discuss the resistance to flow in the steam ducts, the steam temperatures, the steam consumption, and the efficiency of the TGM-94 boiler and K-160-130 turbine operating as a 150-Mwatt block. The constant pressure operation is always advantageous at loads above 125 Mwatt, while the variable pressure operation is more economical at loads below 85 Mwatt.

Card 1/2

ACCESSION NR: AP5002646

The steam condensers used in variable pressure operation must have a 40% larger capacity than in the case of constant pressure operation. Further studies should be conducted with other units placing special emphasis on below 90-Mwatt operation. Orig. art. has 11 formulas, 7 graphs

ASSOCIATION: Yuzhnoye otdeleniye ORGRES (South Division of the ORGRES);
GRES "Severnaya"

SUBMITTED: OO

ENCL/ OO

SUB CODE: PR, IE

NO REF SOV: 002

OTHER: 000

JPRS

Card 2/2

Bobkov, V. T.

GEL'BERG, Lev Aronovich, kand.tekhn.nauk; KOLOTILKIN, Boris Michaylovich, kand.tekhn.nauk; ZAKHARENKOV, G.N.; BOBKOV, V.T.; VOTINOV, A.P., red.; FURMAN, G.V., tekhn.red.

[Data for lectures on the subject: "Housing construction in the sixth five-year plan and means of reducing its cost"; approved by the office of the Section on Construction, Architecture, and Building Materials] Material k lektzii na temu: "Zhilishchnoe stroitel'stvo v shestoi platiletke i rezervy snizheniia ego staimosti"; odobren biuro seksii po stroitel'stvu, Arkhitekture i stroitel'nym materialam, Moskva, Ob-vo po rasprostraneniui polit. i nauchnykh znanii RSFSR, 1958. 46 p. (MIRA 11:12)

1. Zav. otdelom nauchno-tekhnicheskoy prbpagandy Pravleniya Obshchestva RSFSR (for Zakharenkov). 2. Referent otdela nauchno-tekhnicheskoy propagandy Pravleniya Obshchestva RSFSR (for Babkov). (Housing)

BOBKOV, Vasilii Timofeyevich; GORODENSKIY, L.M., red.; KORMAN, V.M., tekhn.
red.

[Technological progress in housing construction; text for a film strip]
Tekhnicheskii progress v zhilishchnom stroitel'stve; material k diafil'-
mu. Moskva, Ob-vo po rasprostraneniuiu polit. i nauchn. znaniu RSFSR,
1960. 38 p. (MIRA 14:8)

(Apartment houses)

(Construction industry--Technological innovations)

BOBKOV, V. V.

KONOBAYEVSKIY, S. T., ZAYMOVSKIY, A. S., LEVITSKIY, B. M., SOKURSKIY, Y. N.
CHEBOTAREV, N. T., BOBKOV, V. V., YEGOROV, P. P., NIKOLAYEV, G. N. AND IVANOV, A. A.

"Some Physical Properties of Uranium, Plutonium and Their Alloys,"

paper to be presented at 2nd UN Intl. Conf. on the peaceful uses of Atomic
Energy, Geneva, 1 - 13 Sept 58.

AL'TSHULER, V.Ye., prof.; MAKOVSKIY, V.I., assistant; BOBKOV, V.V., zootekhnik

Effectiveness of judging cows by their milk yield and butterfat percentage based on various numbers of lactation periods.

Sbor. nauch. trud. Ivan. sel'khoz. Inst. no.19:101-107 '62.

(MIRA 17:1)

1. Kafedra razvedeniya sel'skokhozyaystvennykh zhivotnykh i molochnogo dela (zav. - prof. V.Ye. Al'tshuler) Ivanovskogo sel'skokhozyaystvennogo instituta.

S/044/62/000/004/015/099
C111/C444

AUTHORS: Turetskiy, A. Kh., Bobkov, V. V.
TITLE: Asymptotic inequalities for conjugate trigonometric polynomials
PERIODICAL: Referativnyy zhurnal, Matematika, no. 4. 1962, 16, abstract 3B85. ("Izv. AN BSSR. Ser. fiz.-tekhn. n., 1961, no. 2, 38-48)
TEXT: Considered is the determination of the least upper bound

$$\bar{I}_{m,n} = \sup_x \max_{\nu=1}^n (B_{\nu} \cos \nu x - A_{\nu} \sin \nu x)$$

on the class of the trigonometric polynomials

$$T_n(x) = A_0 + \sum_{\nu=2}^n (A_{\nu} \cos \nu x + B_{\nu} \sin \nu x)$$

which in the equidistant knots $x_k = \frac{2k\pi}{2n+1}$ satisfy the condition

Card 1/2

Asymptotic inequalities for ...

S/044/62/000/004/015/099
C111/C444

$$|a_m T_n^m(x_k) + a_{m-1} T_n^{(m-1)}(x_k) + \dots + a_2 T_n^2(x_k) + a_0 T_n(x_k)| \leq 1$$

where $a_0, a_1, \dots, a_m$ are given coefficients. If α_ν, β_ν denote the real and the imaginary part of the sum $\sum_{k=0}^m a_k (i\nu)^k$ and if there is

$$f(x) = \sum_{\nu=1}^{\infty} \frac{\beta_\nu \cos \nu x - \alpha_\nu \sin \nu x}{\alpha_\nu^2 + \beta_\nu^2}$$

then the integral

$$\frac{1}{\pi} \int_0^{2\pi} |f(x)| dx$$

is the asymptotic value of this least upper bound for $n \rightarrow \infty$.

[Abstracter's note: Complete translation.]

Card 2/2

BOBKOV, V.V.

Solution of Gkursat's problem by the integral relations method.
Vestsi AN BSSR. Ser. fiz.-tekh. nav. no.4:14-24 '63.

(MIRA 17:12)

KRYLOV, V.I.; BOBKOV, V.V.

Integral relations method for the Goursat problem. Dokl. AN BSSR
7 no.7:433-438 JI '63. (MIRA 16:10)

1. Belorusskiy gosudarstvennyy universitet imeni V.I.Lenina.

ACCESSION NR: AP4014695

S/0250/64/008/001/0005/0009

AUTHOR: Bobkov, V. V.

TITLE: Convergence of the integral relation method (presented by V. I. Kry*lov, academician, AN BSSR)

SOURCE: AN BSSR. Doklady*, v. 8, no. 1, 1964, 5-9

TOPIC TAGS: Cauchy problem, integral relation, successive approximation, hyperbolic equation, partial differential equation

ABSTRACT: The method proposed by A. A. Dorodnitsyn (Tr. III Vses. matem. s"yezda, 1956 g., 3, 447, Izd. AN SSSR, 1958) for the approximate solution of partial differential equations has been successfully applied to various problems. However, the convergence of the method, in general, has not been shown. The method of integral relations is applicable to equations of different types, and in this paper the method is applied to hyperbolic equations. Consider the following Cauchy problem:

$$u_{xy} = a(x, y)u_x + b(x, y)u_y + c(x, y)u + f(x, y).$$

$$u[x, L(x)] = \varphi(x), \quad \frac{\partial u[x, L(x)]}{\partial l} = \psi(x), \quad a_1 < x < a_2.$$

Card 1/3

ACCESSION NR: AP4014695

where λ is some direction not tangent to the curve $y = L(x)$. The curve $y = L(x)$ carries the initial conditions and nowhere assumes the characteristic direction. A sequence of approximate solutions is obtained and is shown to converge. An estimate of the error is given, and this estimate assumes a simpler form when the equations considered are

$$u_{xy} = c(x, y)u + f(x, y).$$

It is not difficult to generalize the results to a system of equations of the form

$$\frac{\partial^2 u_i}{\partial x \partial y} = a_i(x, y) \frac{\partial u_i}{\partial x} + \sum_{j=1}^m [b_{ij}(x, y) \frac{\partial u_j}{\partial y} + c_{ij}(x, y) u_j] + f_i(x, y), \quad i = 1, 2, \dots, m,$$

where the right hand side may be quasilinear. Orig. art. has: 30 equations.

ASSOCIATION: Belorusskiy gosudarstvennyy universitet imeni V. I. Lenina

Card 2/3

ACCESSION NR: AP4014695

(Byelorussian State University)

SUBMITTED: 28May63

DATE ACQ: 26Feb64

ENCL: 00

SUB CODE: MM

NO REF SOV: 003

OTHER: 000

Card 3/3

ACCESSION NR: AP4025747

S/0201/64/000/001/0018/0022

AUTHOR: Bobkov, V. V.

TITLE: Error estimates for the method of integral relations in solving certain problems for hyperbolic equations

SOURCE: AN BSSR. Izv. Seriya fiziko-tekhnicheskikh nauk, no. 1, 1964, 18-22

TOPIC TAGS: error estimation, integral relations, hyperbolic equation, Picard problem, Cauchy problem, initial value problem

ABSTRACT: Assume that a linear hyperbolic equation is given in canonical form

$$u_{xy} = a(x, y)u_x + b(x, y)u_y + c(x, y)u + f(x, y) \quad (1)$$

For approximate solution of the problems mentioned below, the author uses the method proposed by A. A. Dorodnitsyn for systems of divergent form. With the help of this method he reduces (1) to a system of ordinary differential equations of first order. He shows convergence and gives estimates of the errors of the methods of approximate solution for these problems. He poses the Picard problem for equation (1), subject to the boundary conditions

Card 1/2

ACCESSION NR:AP4025747

$$\left. \begin{aligned} u(x, 0) &= \varphi(x), \quad -l_1 < x < l_2, \quad l_1, l_2 > 0 \\ u[L(y), y] &= \psi(y), \quad 0 < y < Y, \quad \varphi(0) = \psi(0) \\ L(0) &= 0, \min_{0 < y < Y} L(y) > -l_1, \max_{0 < y < Y} L(y) < l_2, |L'(y)| < G < \infty \end{aligned} \right\} \quad (2)$$

The solution of problem (1), (2) is sought in the rectangle $D: -l_1 < x < l_2, 0 \leq y < Y$.
The author also studies the problem (1), (3)

$$\left. \begin{aligned} u[L(y), y] &= \psi(y), \quad 0 < L'(y) < \infty, \quad 0 < y < l_1, \quad L(0) = 0, \\ L(l_1) &= l_2, \quad u(x, 0) = \varphi(x), \quad 0 < x < l_2, \quad \varphi(0) = \psi(0) \end{aligned} \right\} \quad (3)$$

He notes that such an approach can be used for the Cauchy problem and for the first mixed problem. Orig. art. has: 10 formulas.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 10Apr64

ENCL: 00

SUB CODE: MM

NO REF SOV: 004

OTHER: 000

Card 2/2

L 24167-66 EWT(d)/T/EWP(1) IJP(c)

ACC NR: AP6015169

SOURCE CODE: UR/0376/65/001/002/0230/0243

AUTHOR: Bobkov, V. V.; Krylov, V. I.

ORG: Belorussian State University im. V. I. Lenin (Belorusskiy gosudarstvennyy universitet); Institute of Mathematics AN BSSR (Institut matematiki AN BSSR) ^{42B}

TITLE: Method of integral relations for hyperbolic-type equations and systems (Review of convergence studies and evaluations of the errors)

SOURCE: Differentsial'nyye uravneniya, v. 1, no. 2, 1965, 230-243

TOPIC TAGS: approximation, hyperbolic equation, partial differential equation, digital computer

¹⁶
ABSTRACT: Approximation methods are being developed for the solution of partial differential equations with the use of digital computers. One such method is that of integral relations proposed by A. A. Dorodnitsyn. The paper discusses the approximate solution of second-order hyperbolic equations by using the method of integral relations to reduce them to a system of ordinary first-order differential equations and the approximate solution of hyperbolic systems of two first-order equations by using the method of integral relations to reduce them to a system of linear algebraic equations. Orig. art. has: 20 formulas. [JPRS]

SUB CODE: 12 / SUBM DATE: 20Nov64 / ORIG REF: 027 / OTH REF: 003

Cord 1/1 FV

2

L 104/4-0/ EWT(u) IJP(s)

SOURCE CODE: UR/0428/66/000/001/0005/0014

ACC NR: AP6024331

AUTHORS: Bobkov, V. V.; Krylov, V. I.

ORG: none

TITLE: On one computational scheme of the method of integral relationships for a hyperbolic equation

SOURCE: AN BSSR. Vestsi. Seryya fizika-matematichnykh nauk, no. 1, 1966, 5-14

TOPIC TAGS: hyperbolic equation, integral equation, finite difference method, approximation technique

ABSTRACT: A study is made of a four-point difference equation constructed in solution by a method involving integral relationships of the linear Gurs problem for a canonical second-order equation. Evaluations of the accuracy of the method are developed, and it is shown that the second order of convergence can be guaranteed for an unlimited refinement of the grid interval. The authors also demonstrate the feasibility of extending the results to the Cauchy problem and to certain other problems. The possibility of generalizing the basic results to the case of a simple quasilinear equation is shown. The problem involves finding a solution of the equation

$$u_{xy} = a(x, y)u_x + b(x, y)u_y + c(x, y)u + f(x, y),$$

subject to the conditions

Card 1/2

L 10474-67

ACC NR: AP6024331

$$u(x, 0) = \varphi(x), \quad u(0, y) = \psi(y), \quad \varphi(0) = \psi(0),$$

$$0 \leq x \leq l', \quad 0 \leq y \leq l''.$$

Several transformations (V. V. Bobkov and V. I. Krylov. *Differentsial'nyye uravneniya*, 1, No. 2, 230--243, 1965) are applied to this problem at nodes in a grid of a certain spacing interval. Approximations are made at four adjacent network points. The accuracy of the method is a function of the grid interval chosen, and a means of computing the error is given. Orig. art. has: 11 equations.

SUB CODE: 12/ SUBM DATE: 26Nov65/ ORIG REF: 003

Cord 2/2 *pla*

ACC NR:

AR6035565

SOURCE CODE: UR/0044/66/000/009/B114/B114

AUTHOR: Bobkov, V. V.

TITLE: Convergence and error evaluation in the integral correlation method

SOURCE: Ref. zh. Matematika, Abs. 9B597

REF SOURCE: Tr. 1-y Resp. konferentsii matematikov Belorussii, 1964. Minsk, Vyssh. shkola, 1965, 18-23

TOPIC TAGS: approximation convergence, error, error approximation, numerical method, error theory, integral correlation, partial differential equation, boundary value problem, mixed problem, boundary value

ABSTRACT: A review is presented of results obtained by the author in earlier works. It is noted that the author has established the convergence of the method and given an a priori evaluation of the error. The second-order partial differential equations, are written in the second canonical form

$$u_{xx} = a(x, y)u_x + b(x, y)u_y + c(x, y)u + f(x, y). \quad (1)$$

Cord 1/2

UDC: 518:517.944/.947

ACC NR: AR6035565

In the case of Goursat's and Picard's problems, the two mixed problems, and Cauchy's problem, application of the concept of integration with subsequent interpolation of the integrands in type (1) equations makes it possible to construct simple computation schemes which provide uniform convergence to order h^2 , and to obtain a priori evaluations of the error. When the initial equations in the Goursat, Picard, and the second mixed problem have the canonical form

$$u_{xy} = c(x, y)u + f(x, y), \quad (2)$$

explicit computation schemes converging uniformly up to the order h^{k+1} were constructed by interpolation up to any fixed order $k \geq 1$, and S. A. Gershgorin-type evaluations of errors were obtained. The simplest cases of evaluation for the exact solutions of basic problems leading to equation (2) are treated for zero-order boundary conditions by using the limiting process $h \rightarrow 0$. It is noted that in analyzing systems of two first-order hyperbolic equations, the method of integral correlations is directly applicable to the case in which conditions are given along characteristics. This makes it possible to reduce, approximately, the initial problem to a system of linear algebraic equations which can then be solved explicitly. Computation formulas and error evaluations are obtained, and convergence to order h^2 is established. A bibliography of 6 titles is included. I. Sheli-kova. [Translation of abstract]
Card 2/2 SUB CODE A12/ [SP]

BOBKOV, Ye., jurist

Bonuses for construction workers. Sov. profsoiuzy 19 no.6:28-29
Mr '63. (MIRA 16:3)
(Wages—Construction workers) (Bonus system)

BOBKOV, Ye., podpolkovnik militsii

Grabber at the wheel. Za rul. 19 no.5:31 My '61. (MIRA 14:7)
(Automobile drivers)

BOBKOV, Ye., podpolkovnik militsii

On the circumferential highway. Za bezop.dvizh. 5 no.8:10
Ag '62. (MIRA 15:8)

(Moscow--Traffic accidents)

BOBKOV, Ye., podpolkovnik militsii

On the Leningrad Avenue. Za.bezop.dvizh. 5 no.11:8-9 N '62.

(MIRA 15:12)

(Moscow—Traffic accidents)

BOBKOV, Ye., podpolkovnik militsii

Cause number one. Za bezop. dvizh. 5 no.3:8-9 Mr '63.
(MIRA 16:4)

(Moscow—Traffic accidents)

BOBKOV, Ye., podpolkovnik militsii

This should not be forgotten. Za bezop. dvish. 5 no.5:6
My '63. (MIRA 16:6)

(Moscow—Traffic accidents)

L 54557-65 EWT(1)/EEG(m)/EEG(x)-2/EWA(h) Po-4/Pq-4/Pq-4/Peh/P1-4/P1-4
ACCESSION NR: AP5016727

UR/0286/65/000/010/0044/0044
621.317.726

AUTHOR: Bobkov, Ye. A.; Sazonov, V. V.

TITLE: Pulse voltmeter. Class 21, No. 171031

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 10, 1965, 44

TOPIC TAGS: pulse voltmeter, nanosecond pulse, pulse measurement 9m

ABSTRACT: The proposed pulse voltmeter, for measuring the voltage of nanosecond pulses, contains a d-c measuring device and a system for the automatic control of the position of the measured pulses on the screen of the oscilloscope. Features are provided to improve measurement accuracy by decoupling the measured pulses and the measuring circuit and to eliminate the effect of the thickness of the scope sweep trace on measurement results. For this purpose a photomultiplier with a slotted mask, serving as an unbalanced pickup, is mounted near the screen of the scope so that the top of the image (or the segment of the sweep trace) is matched with the edge of the slot during the transmission of the constant compensating voltage to the plates of vertical deflectors of the oscilloscope. Orig. art. has: 1 figure. [DW]

Card 1/2

L 54557-65

ACCESSION NR: AP5016727

ASSOCIATION: Organizatsiya Gosudarstvennogo komiteta po radioelektronike SSSR
(Organization of the State Committee on Electronics, SSSR)

SUBMITTED: 10May63

ENCL: 00

SUB CODE: EC

NO REF SOV: 000

OTHER: 000

ATD PRESS: 4028

Card 2/2

MIKHAYLOV, G.P.; MASLOV, Yu.A.; FOFONOV, A.A.; GALAKTIONOV, A.T.;
BOBKOV, Ye.I.; NIKONOV, I.P.; DEHISOV, Yu.A.; SHAPKOV, B.K.;
SHATOV, M.Ya.; MIKHAYLOV, S.I.; PETUNIN, I.V.; KHOVANETS, V.K.;
KOCHEVA, G.I.; LABUTINA, E.A.

In memory of A. I. Akhun; an obituary. Svar:proizv. no.12:46 D '57.
(MIRA 11:1)

1.Sotrudniki Kafedry "Oborudovaniye i tekhnologiya svarochnogo
proizvodstva" Ural'skogo politekhnicheskogo instituta imeni
S.D. Kirova.

(Akhun, Alekdandr Il'ich, d. 1957)

BOBKOV, Yu.A. (Leningrad)

Study of a three-phase collector-type generator with series
excitation as a compensator of the resistances of the networks
of electrodynamic models. Izv. AN SSSR. Otd. tekhn. nauk. Energ.
i avtom. no.3:95-105 My-Je '62. (MIRA 15:6)
(Electric power distribution) (Electric generators)
(Electromechanical analogies)

BOBKOV, Yu.A. (Leningrad)

Problem concerning the compensation of ohmic resistance in the
electrodynanic models of electric power systems. Izv. AN SSSR.
Otd. tekhn. nauk. Energ. i avtom. no.4:48-55 J1-Ag '62.

(MIRA 15:8)

(Electric power distribution--Electromechanical analogies)
(Electric network analyzers)

L 58866-65 EPF(n)-2/EPA(s)-2/EWT(m)/EWP(b)/EWP(t) Pt-7, Pu-4 WW/JD/JG

ACCESSION NR: AP50144B4

UR/0292/65/000/006/0014/0016

621.313.291.001.5

AUTHOR: Sukhanov, L. A. (Candidate of technical sciences); Bobkov, Yu. A. (Candidate of technical sciences); Safiullina, R. Kh. (Engineer)

28
B

TITLE: Calculation of liquid-metal current collection in unipolar machines

SOURCE: Elektrotehnika, no. 6, 1965, 14-16

TOPIC TAGS: unipolar machine, liquid metal current collection

ABSTRACT: Based on Western sources, a review is offered of the phenomena transpiring in and parameters of the liquid-metal (mercury) ring-type contact used for current collection in unipolar machines. Formation of undesirable layers between the liquid metal and the collector rings is due to chemical interactions and electrolytic processes. Electrical loss in the collector device and mechanical loss in the contact zone are estimated. As the friction loss decreases and the electrical loss increases with decreasing the contact-zone size, formulas and curves are developed for finding optimal size of this zone. Orig. art. has: 2 figures, 17 formulas, and 3 tables.

ASSOCIATION: none

SUBMITTED: 00

Card 1/1

ENCL:00

NO REF SOV: 001

SUB CODE: RE

OTHER: 004

L 14053-66 EWT(m)/EWP(w)/EPF(n)-2/T/EWP(t)/EWP(z)/EWP(b) IJP(c) JD/WH/HW/JG/
 ACC NR: AT600057 DJ/GS SOURCE CODE: UR/0000/65/000/000/0267/0278

AUTHOR: Sukhanov, L. A.; Bobkov, Yu. A.; Safiullina, R. Kh.

ORG: none

TITLE: Current collectors with liquid metal contact for acyclic machines

SOURCE: AN SSSR. Institut elektromekhaniki. Elektricheskiye mashiny; issledovaniya,
 voprosy teorii i rascheta (Electrical machinery; research, problems in theory and
 design), Leningrad, Izd-vo Nauka, 1965, 267-278

TOPIC TAGS: electric generator, liquid metal, slip ring, direct current, electric
 engineering, friction loss

ABSTRACT: The author discusses various mechanical losses in homopolar dynamos with
 current collectors based on low-melting alloys. Current collector designs are di-
 vided into two basic categories: 1. the ring type in which the channel between the
 contact surfaces is completely filled with the liquid metal; 2. the jet type in
 which contact is made at individual points around the circumference by a thin pres-
 surized jet of liquid metal. The advantages and disadvantages of each of these

Card 1/2

L 11053-66

ACC NR: AT6000057

types are discussed. Tests of a mercury jet contact show a resistance of less than $10^{-3} \Omega$ for a linear rotor velocity of 150 m/sec, a current of 1000 amps and mechanical losses in the jet of about 750 w. The authors describe the centrifugal ring contact in horizontal and vertical homopolar machines. Electrical losses in this type of current collector are analyzed. Consideration is given to the formation of a contaminant layer by the interaction between the liquid metal and the surface of the current collector rings. Experimental data show an increase in equivalent resistance with time which differs for various metals. It is found that nickel is especially suitable for use in current collectors. Formulas are given for determining losses due to friction in the contact zone. The various formulas given for electrical and mechanical losses are used as a basis for deriving analytical expressions for selecting optimum dimensions of the contact zone. Orig. art. has: 4 figures, 4 tables, 22 formulas.

SUB CODE: 10/

SUBM DATE: 01Mar65/

ORIG REF: 002/

OTH REF: 007

BVK
Card 2/2

BOBKOV, Yu.G.

Role of nodular ganglia of the vagus nerve in the emetic response
to aconitine and veratrine. Fiziol. zhur. 50 no.2:187-192 F '64.
(MIRA 18:2)

1. Otdel farmakologii Instituta eksperimental'noy meditsiny AMN
SSSR, Leningrad.

GURVICH, I.B., kand. tekhn. nauk; BOBKOV, Yu.K.; SEREBRYAKOV, K.B.

Improving the stability indices of automobile engines. Avt.prom.
no.9:6-8 S '61. (MIRA 14:9)

1. Gor'kovskiy avtozavod.
(Automobiles--Engines)

Bobkov, Yu. N.

124-1957-10-11273

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 10, p 15 (USSR)

AUTHORS: Karandeyev, K. B., Bobkov, Yu. N.

TITLE: Moment-Free Servo Systems and Their Gauges (Bezmomentnyye sledyashchiye sistemy i ikh datchiki)

PERIODICAL: Nauch. zap. L'vovsk. politekhn. in-t, 1956, Nr 36, pp 125-135

ABSTRACT: The paper describes basic principles of certain photoelectric cell gauges, used in the construction of moment-free servo systems, which do not require any structural changes in the actuating shaft. The gauges are applicable to systems with optical reading of the indicator position on the scale. The principal types of gauges are classified into two groups: 1) the impulse-proportional, and 2) the time-impulsive; in the latter class two designs types are considered. A comparative evaluation of the quality of the various moment-free gauges is given.
G. M. Ulanov

Card 1/1

BOBKOV, Yu.N.

Differentiation of minor displacements by means of induction pickups with direct current supply. Izv.vys.ucheb.zav.; prib. 5 no.5:16-24 '62. (MIRA 15:9)

1. L'vovskiy politekhnicheskiy institut. Rekomendovana kafedroy avtomatiki i telemekhaniki. (Electromechanical analogies)

8(3)

AUTHORS:

SOV/143-59-4-4/20
Bobkov, Yu.N., Candidate of Technical Sciences, and
Titarenko, M.V., Candidate of Technical Sciences,
Docent

TITLE:

Controlling Insulation of Generator Bearings

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy - Energetika,
1959, Nr 4, pp 26-28 (USSR)

ABSTRACT:

For a number of reasons, of which the magnetic asymmetry of the rotor is the most important, there are wattless currents along the generator shaft and the shaft of the turbine which is connected with it. These currents also penetrate into the bearings with the result that the bearings are damaged and the grease is decomposed. The article describes three methods to measure these currents in the bearings, but these methods cannot be used to control the currents systematically during operation of the generator. The authors then give a review of a new method, which not only allows to measure the currents in the bearings relatively accurately even during operation of the turbogener-

Card 1/2

Controlling Insulation of Generator Bearings

SOV/143-59-4-4/20

ator, but also makes it possible to determine defects in the insulation of the foundation of the plant. This method is illustrated in a graph and a block diagram. In order to measure the currents in the bearings ammeters are installed at certain points in the main insulation system (at the ground plate) and on the generator shaft. The measured currents indicate the quality of the insulation and allow to calculate the contact resistances between the different parts of the machine which have wattless currents. This is illustrated by equations. There are 2 block diagrams and 4 Soviet references.

ASSOCIATION: L'vovskiy politekhnicheskii institut (L'vov Polytechnical Institute) ✓

Card 2/2

S/880/61/000/079/007/011
E140/E463

AUTHOR: Bobkov, Yu.N.
TITLE: Impulse braking of automatic potentiometer
servomechanisms
SOURCE: Lvov. Politekhnychnyy instytut. Nauchnyye zapiski.
no.79. Voprosy elektroizmeritel'noy tekhniki. no.1.
1961. 169-186

TEXT: The paper compares the response times of a given system with impulse stabilization and with continuously acting stabilization. As an example of impulse damping the author considers the application of dry friction to the motor shaft at the approach to the equilibrium position, while for the continuously acting system, tachometric feedback is considered. The advantage of increasing the speed of response is to permit more frequent and hence more accurate measurements. While making the criticism that tachometric feedback requires a special piece of equipment - the tachometer - the author proposes that the impulse damping be obtained by the use of a magnetic clutch with laminated magnetic circuit. The computations indicate that the
Card 1/2

Impulse braking ...

S/880/61/000/079/007/011
E140/E463

impulse damping is superior with respect to the system response speed. There are 12 figures.

Card 2/2

BOBKOV, Yu.N.

An automatic semibalanced bridge for measuring and checking
capacitances or controlling and regulating frequency. Nauch. zap.
LPI no.1:118-129 '61. (MIRA 16:6)
(Frequency regulation) (Bridge circuits)
(Condensers(Electricity)--Testing)

BOBKOV, Yu.N.

Impulse braking of the tracking systems of automatic compensators.
Nauch. zap. LPI no.1:169-187 '61. (MIRA 16:6)
(Servomechanisms)

Bob Kov, Yu. V.

21(4) PHASE I BOOK EXHIBITION NOV/21/74

International Conference on the Peaceful Uses of Atomic Energy. 2nd, Geneva, 1958

Publitsy sovetskikh uchebnykh i nauchnykh spetsializirovannykh izdaniy. (Reports of Soviet Scientists) Nuclear Fuel and Reactor Metals) Moscow, Atomizdat, 1959. 670 p. (Series: 1st: Trade, vol. 3, 0,000 copies printed.

Ed. (Title page): A.A. Kocherzhevskiy, Academician, A.P. Vinogradov, Academician, V.S. Tsel'nyakov, Corresponding Member, USSR Academy of Sciences, and A.S. Zeffirov, Doctor of Technical Sciences; Ed. (Inside book): V.V. Pavlovskiy and G.M. Fokhtel'steyn; Tech. Ed.: N.I. Masel.

REMARKS: This volume is intended for scientists, engineers, physicists, and metallurgists working in the production and peaceful application of atomic energy; for technical education where the subject is taught; and for people interested in atomic science and technology.

CONTENTS: This is volume 3 of a 6-volume set of reports on atomic energy, presented by Soviet scientists at the Second International Conference on the Peaceful Uses of Atomic Energy, held in Geneva from September 1 to 13, 1958. Volume 3 consists of two parts. The first part, edited by A.I. Zubov, is devoted to geology, prospecting, concentration and processing of nuclear source material. The second part, edited by G.I. Zverev, includes 27 reports on metallurgy, metallurgy, processing technology of nuclear fuels and nuclear waste, and neutron irradiation effects on metals. The titles of the individual reports are listed in the table of contents. The titles of the official English language edition on the Conference proceedings. See NOV/2001 for the titles of the other volumes of the set.

Kocherzhevskiy, A.A., I.G. Kuznetsov, and V.S. Tsel'nyakov. Self-diffusion of Uranium in the Gamma-phase (Report No. 2506)

Kocherzhevskiy, A.A., S.S. Koshcheyevskiy, V.I. Kuznetsov, V.S. Tsel'nyakov, and V.I. Chibrikov. Zirconium Interaction With Other Metals in Connection With Their Arrangement in Mendeleev's Periodic Table (Report No. 2507)

Kocherzhevskiy, S.S., A.S. Zverevskiy, B.M. Levitskiy, Yu.S. Shchegolev, A.S. Chibrikov, E.A. V. Kobayashi, B.A. Zverev, V.I. Chibrikov, and V.A. Zverev. Some Physical Properties of Uranium and Plutonium and Their Alloys (Report No. 2508)

Ogarev, A.S., V.A. Shchegolev, V.O. Abramov, B.M. Shchegolev, and V.I. Shchegolev. Plastic

Strontium Production by the Electrolysis of Fused Salts (Report No. 2509)

Card 7/11

370

376

396

414

S/089/60/008/04/04/009
B113/B017

AUTHORS: Sokurskiy, Yu. N., Bobkov, Yu. V.

TITLE: Investigation of the Increase in Internal Friction in Samples
of Polycrystalline Uranium With Temperature Variation

PERIODICAL: Atomnaya energiya, 1960, Vol. 8, No. 4, pp. 348-353

TEXT: Samples of polycrystalline uranium of varying composition were investigated which had been hardened from the gamma phase, annealed in the gamma phase and such which had been recrystallized. The experiments were made in three temperature intervals from 20 to 290°C. In this connection the dependence of the increase in internal friction on the heating rate and the various structural states was observed. The rapidity with which internal friction increases is gradually reduced and attains a value which is approximately proportional to the heating rate of the sample. The increase in internal friction is related with the strain which is produced in the sample with temperature variation due to the anisotropy of the coefficient of thermal expansion. At temperatures exceeding 350°C the effect of the increase in internal friction is

Card 1/2

✓B

Investigation of the Increase in Internal
Friction in Samples of Polycrystalline Uranium
With Temperature Variation

S/089/60/008/04/04/009
B113/B017

practically completely lacking. On heating the samples even measurable macroscopic changes can be observed. There are 6 figures, 1 table, and 11 references: 5 Soviet, 2 English, and 4 American.

SUBMITTED: May 30, 1959

✓B

Card 2/2

85562

S/089/60/009/005/005/020
B006/B070

21.1330

AUTHORS: Sokurskiy, Yu. N., Bobkov, Yu. V.

TITLE: Increase of Internal Friction in Uranium on a Change of
Its Temperature

PERIODICAL: Atomnaya energiya, 1960, Vol. 9, No. 5, pp. 392 - 398

TEXT: The present paper follows a previous one in which it was established that the internal friction of uranium increases rapidly on heating. This increase in internal friction is attributed to microstresses and deformations of the polycrystalline grains of the sample due to anisotropic change of form of the crystals on change of temperature. A theoretical and an experimental part of the present paper give a semiquantitative estimate of the dependence of the increase of internal friction on the rate of heating, the frequency, and the amplitude of pendulum oscillations. First, the temperature-dependent change of deformation ϵ and stress σ in a grain of α uranium (average coefficient of linear expansion $\alpha_m = 17.3 \cdot 10^{-6}$) is theoretically studied and some

Card 1/4

85562

Increase of Internal Friction in Uranium
on a Change of Its Temperature

S/089/60/009/005/005/020
B006/B070

formulas are derived. The theoretical dependence of the increase of internal friction on heating from 20° to 120°C on the quantity $\nu\tau$ (ν - rate of heating, τ - period of oscillation) is compared with the experimental values in Fig.3. The apparatus used for the experiment, and the method of preparation of the samples were the same as described in Ref.1; the method was changed in unimportant details. The results of the experiments are discussed in detail. It is found that the increase of internal friction as a function of the heating time for different values of τ and $\nu \leq 50^\circ\text{C}/\text{min}$ is similar to the previously obtained result for $\tau = 0.5$ sec and $\nu \leq 20^\circ\text{C}/\text{min}$. The details of the dependence are shown in Fig.3. There were great difficulties involved in the determination of the amplitude dependence. Fig.4 shows the change Δ of internal friction as a function of A_{max} . It was experimentally found that

$\Delta = 7.2 \cdot 10^{-3} + 3.5 \cdot 10^{-8} / A_{\text{max}}$. The effect of the initial state of the sample on the increase of internal friction was studied, and is shown in several diagrams. It is found that on a change of temperature the relaxation processes in polycrystalline uranium are intensified and lead to an increase of internal friction. The increase of internal

Card 2/4

85562

Increase of Internal Friction in Uranium
on a Change of Its Temperature

S/089/60/009/005/005/020
B006/B070

friction depends mainly on $v\tau$. For small values of $kv\tau/A$, it is proportional to $v\tau$; for large values, however, saturation is reached. The theoretical estimates are in good agreement with the experimental data. There are 6 figures, 1 table, and 3 Soviet references.

SUBMITTED: April 4, 1960

Card 3/4

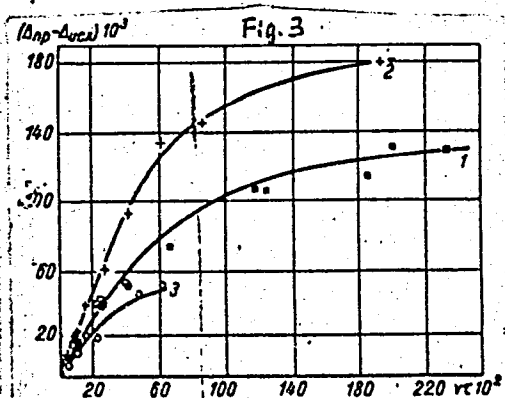
85562

S/089/60/009/005/005/020
B006/B070

	C	Fe	Si	Al
A	0,037	$2,1 \cdot 10^{-2}$	$4,5 \cdot 10^{-2}$	—
B	0,049	$8,3 \cdot 10^{-2}$	$1,4 \cdot 10^{-2}$	$1,4 \cdot 10^{-1}$

Legend to Fig. 3:

- 1 - Hardened sample of the composition B ($\square$ - $\tau = 0.5$ sec, $\square$ - $\tau = 2.6$ sec);
 - 2 - hardened sample of the composition A ($v \approx 11^\circ\text{C}/\text{min}$, τ varied);
 - 3 - tempered samples of the composition B (τ varied, $v \approx 11^\circ\text{C}/\text{min}$).
- The continuous lines correspond to the theoretical functions.



Card 4/4

SOV/137-59-3-4934

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 3, p 5 (USSR)

AUTHOR: Bobkov, Yu. Ya.

TITLE: Technical Progress in the Refractory Industry (Tekhnicheskiy progress v ognepurnoy promyshlennosti)

PERIODICAL: Byul. tekhn.-ekon. inform. Sovnarkhoz Tul'sk. ekon. adm. r-na, 1958, Nr 7, pp 15-17

ABSTRACT: The author reports on the work of the Stalinogorsk fireclay factory of the Tula Council of National Economy which uses clay mined as a byproduct of Moscow-basin lignites. The plant was designed to produce 50,000 tons of finished products per year, whereas in 1957 it produced 118,000 tons. The increase in productive capacity was achieved as a result of the following measures: Increase in pressure and amount of blast air in the clay-firing shaft kilns; employment of conveyers for transporting clay; automatization of the blending crusher rolls; employment of more powerful presses which were constructed at the plant for brick molding; increasing the draft in the brick-firing kilns; mechanization of the unloading of clay from railroad cars, etc.

Card 1/2

At the present time work is being carried out for attaining a

SOV/137-59-3-4934

Technical Progress in the Refractory Industry

production of 225,000 tons of fireclay articles per year.

N. M.

Card 2/2

GOREGLYAD, Kh.S., akademik; SHIKHALEYEV, N.F.; MORDASOV, P.M., kand.
veterin.nauk; BITYUKOV, P.A., kand.veterin.nauk; BORKOVA, A.F.,
kand.veterin.nauk; YEGOROV, Yu.G., kand.veterin.nauk

Materials on anaplasmosis acquired from vaccinations in cattle
in the Glusk District of the White Russian S.S.R. Trudy NIVI
1:72-89 '60. (MIRA 15:10)

1. AN Belorusskoy SSR i Akademiya sel'skokhozyaystvennykh nauk
Belorusskoy SSR (for Goreglyad).
(Glusk District—Anaplasmosis) (Vaccination)

BOBKOVA, A.F., kand.veterin.nauk

Materials to the helminthic fauna of swine in the White Russian
Polesye. Trudy NIVI 1:135-148 '60. (MIRA 15:10)
(Polesye—Parasites—Swine)(Veterinary helminthology)

BOBKOVA, A.F., kand.veterin.nauk

Study of the seasonal dynamics of dictyocaulosis of cattle and sheep
in the White Russian Polesye. Trudy NIVI 1:149-159 '60.

(MIRA 15:10)

(Veterinary helminthology) (Polesye--Lungworms)

YEGOROV, Yu.G., kand.veterin.nauk; BOBKOVA, A.F., kand.veterin.nauk

Therapy of monieziasis of calves using calcium arsenate. Trudy
NIVI 1:171-173 '60. (MIRA 15:10)
(Calcium arsenate) (Veterinary helminthology)

ZHARIKOV, Ivan Semenovich; YEGOROV, Yuriy Grigor'yevich; BOBKOVA,____
Anastasiya Fominichna; DOMASHEVICH, O., red.; YERMILOV, V.,
tekhn. red.

[Fascioliasis of farm animals and its control]Fastsiolez sel'-
skokhoziaistvennykh zhiivotnykh i bor'ba s nim. Minsk, Sel'khoz-
giz BSSR, 1962. 63 p. (15:11)

(White Russia--Liver fluke)

(White Russia--Parasites--Domestic animals)

COUNTRY : USSR
CATEGORY :
ABS. JOUR. : RZBiol., No. 1990, No. 10354
AUTHOR : Bobkova, A. F.
INST. : Scientific Research Veterinary Institute of the *
TITLE : Helminthic Fauna of Sheep in the Belorussian
Wooded District
ORIG. PUB. : Byul. nauchno-tekhn. inform. N.-i. vet. in-t
Akad. s.-kh. nauk BSSR, 1957, No 1, 39
ABSTRACT : * Academy of Agricultural Sciences BSSR
In the area studied there was a ubiquitous
distribution of fascioliasis (extent of the
infestation in various areas went up to 77%),
dictyocaulosis (up to 44%) and monieziasis
(up to 18%).

CARD: 1/1

15

USSR / Zooparasitology. Parasitic Worms: Helminths G
in Animals.

Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 19696

Author : Bobkova, A. F.

Inst : Scientific-Research Veterinary Institute
of the Academy of Agricultural Sciences BSSR

Title : The Helminth Fauna of Swine in the Zone of
the Belorussian Forest Area

Orig Pub : Byul. nauchno-tekhn. inform. n.-i. vet.
in-t Akad. s.-kh. nauk BSSR, 1957, No 1,
40-41

Abstract : No abstract given

Card 1/1

YUSKOVETS, M.K., akademik, otv. red.; BOBKOVA, A.F., kand. vet.
nauk, red.; GOREGLYAD, Kh.S., akademik, red.; DEMIDOV,
V.A., red.; TUZOVA, R.V., red.; KARKLINA, E., red.

[Controlling losses in animal husbandry; transactions]
Bor'ba s poteriami v zhivotnovodstve; trudy NIVI. Minsk,
Gos. izd-vo sel'khoz. lit-ry BSSR, 1963. 212 p.

(MIRA 17:6)

1. Minsk. Nauchno-issledovatel'skiy veterinarnyy institut.
2. Akademiya nauk Belorusskoy SSR (for Yuskovets, Goreglyad).

BOBKOVA, B. I.; TUBURSKAYA, N. A.; LYSENKO, A. Ya.

"Search for Methods of Radical Chemical Prophylaxis and a Relapse-Free Cure for Tertiary Malaria with Short and Long Incubation Periods," Medits. Par. i Par. Bol., No. 1, pp 71-77, 1954.

Translation M-761, 31 Aug 55

BOBKOVA, E.A.

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Gosudarstvennogo nauchno-issledovatel'skogo instituta psikhiatrii
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(EMOTIONS) (CEREBRAL ARTERIOSCLEROSIS)

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Gosudarstvennogo nauchno-issledovatel'skogo instituta
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Gosudarstvennogo nauchno-issledovatel'skogo instituta psikiatrii
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KARATAYEV, N.K., prof.; POLYANSKIY, F.Ya., prof.; REUEL', A.L., prof.;
AFANAS'YEV, V.S., dotsent; BOBKOVA, K.I., dotsent; ZAMYATNINA,
V.N., dotsent; RYNDINA, M.N., dotsent; BAKOVETSKIY, O., red.;
CHEPELEVA, O., tekhn.red.

[Curriculum for the course "History of economic theory"; for
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Programma kursa "Istoriia ekonomicheskikh uchenii" dlia ekono-
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BOBKOVA, M. B. A-4

Optimum conditions for preparation of complex vaccines. V. M. KULIKOV, A. V. BRILINSON, M. P. BOBKOVA and N. V. CHOLMONIEV (J. Microbiol. Epidemiol. Immunobiol. U.S.S.R., 1985, 14, #22-#23).—Purification of bouillon nutrient by using a high-mol. N complex with naganin in acid does not diminish the nutrient val. of the medium for *Sal. paratyphi* or *Shigella typhosa*, but removes proto- and hetero-albuminose which is not assimilated by the bacteria. The N complex again appears in the medium after 6 days' growth of the organisms. Immunity was induced in mice by vaccination with live cultures and with the complex vaccine obtained after a second removal of the N complex from the nutrient. Formalin-treated vaccine gave 24% cases of immunity. Use of the filtrate without live cultures was unsuccessful. Cit. Ans. (p)

ASM-51A METALLURGICAL LITERATURE CLASSIFICATION

FROM SYMBOL										SUBJECT MATTER										DESCRIPTORS										CLASSIFY ONE OR MORE									
1 2 3 4 5 6 7 8 9 10										11 12 13 14 15 16 17 18 19 20										21 22 23 24 25 26 27 28 29 30										31 32 33 34 35 36 37 38 39 40									

1ST AND 2ND ORDER										PROCESSING AND PROPERTY INDEX										3RD AND 4TH ORDER									
ca										Studies of substances which delay absorption of antigen by the organism. A. V. Bellinson and M. P. Bobkova. <i>Z. Microbiol., Epidemiol., Immunopathol.</i> (U. S. S. R.) 1940, No. 11, 17-23.—The purpose of these studies was to find a substance which on being added to the typhoid vaccine would produce conditions necessary for gradual resorption of the antigen (from the depot) by the body, yet would cause only a slight irritation of the tissues, without any local inflammation. Substances that coat the particles of the antigen, substances that adsorb it, and substances that coagulate it were studied. These were, resp. (a) fats and their water emulsions, also gum arabic, (b) Ca phosphate and $Al(OH)_3$, (c) K Al alum. The best action was that of the Ca phosphate vaccine and that of the gum arabic vaccine. Especially good was a vaccine containing both the Ca salt and 25-50% gum arabic. The immunity reached a max. after 30 days. The alum vaccine showed the same type of immunity and the same percentage of survival as the $Al(OH)_3$ vaccine, but evidently 1% concn. of the alum used here was insufficient to ppt. all of the antigen of the complex vaccine. 31 references.										11 2									
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION										FROM SOURCE										1ST AND 2ND ORDER									
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"The Effect of Some Vegetative and Animal Extracts on the Growth of Typhus, Paratyphus, and Dysentery Microbes," Zhur. mikrobiol., epidemiol. i Immunobiol., No.6, 1944

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7724
 The blood proteases in hyperimmune antitoxic serums and the means for their detection. A. V. Bellinson, M. P. Bobkova, K. I. Shakhman, T. A. Vitokhin, T. P. Blakman, and G. V. Chistoserova (N. P. Gamalet Inst. Epidemiol. and Microbiol., Acad. Med. Sci. U.S.S.R., Moscow). *Biokhimiya* 21, 671-N (1950).—The presence of proteolytic enzymes in antitoxic serum and in the blood plasma of producer horses has been confirmed. The basic pattern of such enzymes exist in the inactive form and become activated upon the addn. of CHCl_3 . With coagulated fibrin as the substrate the intensity of the activity of proteases in samples of different antitoxic serums and of blood plasma can be evaluated on a comparative basis. The proteolytic enzymes of antitoxic serums and of blood plasma are active at pH 5.5–8.0. The lowest activity of these proteases was at pH 6.0, the highest at pH 6.5–7.5. R. S. Latta